



Kohrs Lonnemann Heil Engineers, Inc.

Fort Thomas Office
1538 Alexandria Pike, Suite 11
Ft. Thomas, KY 41075
859-442-8050 telephone
859-442-8058 fax

Product Data

Project Name:	Sharonville Convention Center Expansion	Submittal Code:	233600.00-PD-01	REV: 00
Document Set:	Bid/Construction			
KLH Project #:	21108.00-Bid	Received Date:	06/21/2022	
Section Name:	Air Terminal Units			
Section Number:	233600.00			
Submitted By:	Megen Construction			
Authored By:	Megen Construction			
Client Name:	CT Consultants, Inc.			

SUBMITTAL REVIEW

No Exceptions

By: Daniel R. Sharp **Date:** 06/22/2022

ENGINEER'S REVIEW IS FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. COMMENTS DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR REMAINS RESPONSIBLE FOR ACCURACY OF QUANTITIES, DIMENSIONS, DETAILS AND COORDINATION WITH OTHER TRADES.

General

1.1 No exceptions taken.

End of Submittal Review

Note: Review is for general conformance only. Submittal reviews featuring the "No Exceptions" designation shall not be interpreted as permission to deviate from the contract. Modifications to the contract are based on express written request and approval and submittal reviews do not satisfy this requirement.

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-Megen
 11130 Ashburn Road
 Cincinnati, OH 45240
 Phone 513.742.9191
 Fax 513.742.9393

SUBMITTAL COVERSHEET

Submittal Number	233600-01	Revision Number	00
Submittal Title	Air Terminal Units (PD)		
Specification Section	233600	Date Submitted	5/4/2022
Drawing/Detail #		Response Required By	5/18/2022
Project Number	C475	Project Name	Sharonville CC Expansion

Company:	Manufacturer	Supplier	Installer
			Driekast

Spec Section	Description	Action Required
233600	Air Terminal Units –Product Data	Approval

Company:	Submitted By:	Submitted To:
	Megen Construction	CT Consultants
Name:	Ian Getz	Brian Sabla
Email:	iget@megenconstruction.com	Bsabla@ctconsultants.com

DESIGN TEAM REVIEW:

MEGEN CONSTRUCTION REVIEW

The undersigned hereby certifies our review of the referenced submittal to be in compliance with the Contract Documents. Correctness of details, measurements, quantities, conformity with documents, techniques of construction and contract coordination with other trades shall remain the complete responsibility of the Subcontractor.

COMMENTS:

Ian Getz

 MEGEN

5/4/2022

 Date



DRIEKAST PIPING CORP

11290 SEBRING DRIVE CINCINNATI, OHIO 45240
PH. (513) 674-9110 FAX (513) 674-9113



SUBMITTAL

Project Name: Sharonville Convention Center Expansion		
Project Address: 11355 Chester Road	City, State: Cincinnati	Zip Code: 45246

General Contractor: Megan Construction			
Project Manager: Wes Dorger		Prepared By: Wes Dorger	
HVAC <input type="checkbox"/>	Plumbing <input type="checkbox"/>	Submittal #:	Date:3/18/2022
Specification #: 233600		Description: Air Terminal Units	

Reviewed

Reviewed as Noted

Revise & Resubmit

Langdon , Inc.

9865 Wayne Ave.
Cincinnati , Ohio 45215

Phone 513-733-5955
Fax 513-733-8050

SHARONVILLE CONVENTION CENTER

11355 CHESTER RD
Cincinnati, Ohio 45246

DRIEKAST

11290 SEBRING DR
CINCINNATI OH 45240

513-674-9110

SUBMITTAL No.HVAC-03

233600

Specification Number

Air Terminal Units

Item

LANGDON , INC.

Reviewed

Reviewed as noted

Revise and resubmit

March 17, 2022

Bill Bauer
Project Manager
Langdon, Inc.



CONTROLLED AIR, INC.

12009 Tramway Drive • Cincinnati, Ohio 45241

PROJECT: Sharonville Convention Center

LOCATION: Sharonville, OH

CUSTOMER: Langdon INC.

ENGINEER: KLH

EQUIPMENT: Titus VAVs
Spec 233600

SUBMITTED BY: MATT TEPE
CONTROLLED AIR INC.
12009 TRAMWAY DRIVE
CINCINNATI, OH 45241

PHONE: 513-769-0290

FAX: 513-769-6633

matt.tepe@controlled-air.com

DATE: 3/8/2022

Single Duct Terminal Unit Schedule

Tag	AHU	Room	Model	Size		CFM		Static Pressure			NC Levels		Hot Water Heat Coil										Unit Information	
	Tag			Unit	Outlet	Max	Min	Inlet	Down	Min	Rad	Dis	CFM	MBH	EAT	EWT	LAT	APd	GPM	LWT	WPd	Rows	FPI	Hand
V14-01			DESV	16	24x18	3000	1500	1	0.25	0.45	22	23	2819	107.1	55	190	90	0.42	6.2	154.4	0.61	2-RH	10	RH
V14-02			DESV	10	14x12.5	740	370	1	0.25	0.19	22	24	601	24.2	55	190	92.1	0.18	1	140.1	0.11	2-RH	10	RH
V14-03			DESV	16	24x18	2500	1250	1	0.25	0.17	21	22	1250	41.7	55	190	85.8	0.15	4.1	169.1	0.92	1-RH	10	RH
V14-04			DESV	10	14x12.5	1000	500	1	0.25	0.2	23	27	500	18.5	55	190	89	0.19	1.8	168.9	0.33	1-RH	12	RH
V14-05			DESV	09	14x12.5	700	350	1	0.25	0.11	18	25	368	14.2	55	190	90.5	0.08	1.5	170.6	0.24	1-RH	10	RH
V14-06			DESV	10	14x12.5	700	350	1	0.25	0.17	22	27	700	26.7	55	190	90.2	0.16	1.1	139.9	0.13	2-RH	10	RH
V14-07			DESV	06	12x8	240	120	1	0.25	0.09	16	24	120	4.3	55	190	88.3	0.04	0.3	154.2	0.05	1-RH	10	RH
V14-08			DESV	16	24x18	3000	1500	1	0.25	0.45	22	23	3000	125.2	55	190	93.5	0.42	12.2	168.9	2.23	2-RH	10	RH
V17-01			DESV	09	14x12.5	560	280	1	0.25	0.08	16	23	280	10.9	55	190	91	0.06	0.8	161.8	0.1	1-RH	10	RH
V17-02			DESV	12	16x15	1080	540	1	0.25	0.11	22	24	540	18.9	55	190	87.3	0.1	1.3	160.1	0.23	1-RH	10	RH
V17-03			DESV	07	12x10	430	215	1	0.25	0.2	20	24	430	18.3	55	190	94.3	0.14	0.8	142.8	0.15	2-RH	10	RH
V17-04			DESV	10	14x12.5	920	460	1	0.25	0.3	22	25	920	49.6	55	190	104.7	0.29	4.8	168.7	1.38	2-RH	12	RH
V17-05			DESV	14	20x17.5	1430	715	1	0.25	0.19	20	19	1372	51.7	55	190	89.7	0.17	1.7	127.3	0.17	2-RH	10	RH
V17-06			DESV	14	20x17.5	1560	780	1	0.25	0.21	20	19	1443	54	55	190	89.5	0.19	1.8	128.1	0.18	2-RH	10	RH

- Notes:
1. Selections are based on Titus as Manufacturer.
 2. All performance based on tests conducted in accordance with ASHRAE 130-2008 and AHRI 880-2011.
 3. All NC levels determined using AHRI 885-2008 Appendix E.
 4. All airflow, pressure losses and heating performance values have been corrected for altitude.
 5. Units of measure: dimensions (in), airflow (cfm), water flow (gpm), air pressure (in wg), water head losses (ft) and temperatures (degF).
 6. Water pressure drop (WPd) units is in ft. water.

*The results of this program are only an aid to the designer, and are not a substitute for professional design services.
Titus accepts no liability for the adequacy of any resulting design or installation.
All data subject to change without notice.*

Schedule



Date/Time: 03/09/2022 12:10:59
Job: Sharonville Convention Center
Project:
Customer:
Sales Person: Matt Tepe

Current Version: 2014.0.522
 Modified Version: 2014.0.522
 Created by: matt.tepe@controlled-air.com
 Schedule Name: Single Duct (All Selections) Report

Model	Quantity	Tag	Unit Config	Liner Option	Unit Size	Casing Config	Controller	Actuator Type	Max Primary CFM	Min Primary CFM	Control Acc1	Control Acc2	Control Acc3	Unit Acc1	Unit Acc2	Unit Acc3	Unit Acc4	Unit Acc5	Water Coil	Electric Heat	KW	Elec Coil Acc1	Elec Coil Acc2	Elec Coil Acc3	Elec Coil Acc4	Comments
DESV	1	V14-01	0 - BASIC	L - ½" EcoShield (Foil Face)	16	1R - 22GA RH, Access Door	0000 - NONE	0000 - NONE	3000	1500	00 - NONE	00 - NONE	00 - NONE	E - METAL CTRL ENCLOS	0 - NONE	0 - NONE	0 - NONE	0 - NONE	W12-2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	V14-02	0 - BASIC	L - ½" EcoShield (Foil Face)	10	1R - 22GA RH, Access Door	0000 - NONE	0000 - NONE	740	370	00 - NONE	00 - NONE	00 - NONE	E - METAL CTRL ENCLOS	0 - NONE	0 - NONE	0 - NONE	0 - NONE	W12-2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	V14-03	0 - BASIC	L - ½" EcoShield (Foil Face)	16	1R - 22GA RH, Access Door	0000 - NONE	0000 - NONE	2500	1250	00 - NONE	00 - NONE	00 - NONE	E - METAL CTRL ENCLOS	0 - NONE	0 - NONE	0 - NONE	0 - NONE	W11-1 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	V14-04	0 - BASIC	L - ½" EcoShield (Foil Face)	10	1R - 22GA RH, Access Door	0000 - NONE	0000 - NONE	1000	500	00 - NONE	00 - NONE	00 - NONE	E - METAL CTRL ENCLOS	0 - NONE	0 - NONE	0 - NONE	0 - NONE	U11-1 ROW RH HIGH CAPACITY	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	V14-05	0 - BASIC	L - ½" EcoShield (Foil Face)	09	1R - 22GA RH, Access Door	0000 - NONE	0000 - NONE	700	350	00 - NONE	00 - NONE	00 - NONE	E - METAL CTRL ENCLOS	0 - NONE	0 - NONE	0 - NONE	0 - NONE	W11-1 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	V14-06	0 - BASIC	L - ½" EcoShield (Foil Face)	10	1R - 22GA RH, Access Door	0000 - NONE	0000 - NONE	700	350	00 - NONE	00 - NONE	00 - NONE	E - METAL CTRL ENCLOS	0 - NONE	0 - NONE	0 - NONE	0 - NONE	W12-2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	V14-07	0 - BASIC	L - ½" EcoShield (Foil Face)	06	1R - 22GA RH, Access Door	0000 - NONE	0000 - NONE	240	120	00 - NONE	00 - NONE	00 - NONE	E - METAL CTRL ENCLOS	0 - NONE	0 - NONE	0 - NONE	0 - NONE	W11-1 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	V14-08	0 - BASIC	L - ½" EcoShield (Foil Face)	16	1R - 22GA RH, Access Door	0000 - NONE	0000 - NONE	3000	1500	00 - NONE	00 - NONE	00 - NONE	E - METAL CTRL ENCLOS	0 - NONE	0 - NONE	0 - NONE	0 - NONE	W12-2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	
DESV	1	V17-01	0 - BASIC	L - ½" EcoShield (Foil Face)	09	1R - 22GA RH, Access Door	0000 - NONE	0000 - NONE	560	280	00 - NONE	00 - NONE	00 - NONE	E - METAL CTRL ENCLOS	0 - NONE	0 - NONE	0 - NONE	0 - NONE	W11-1 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE	

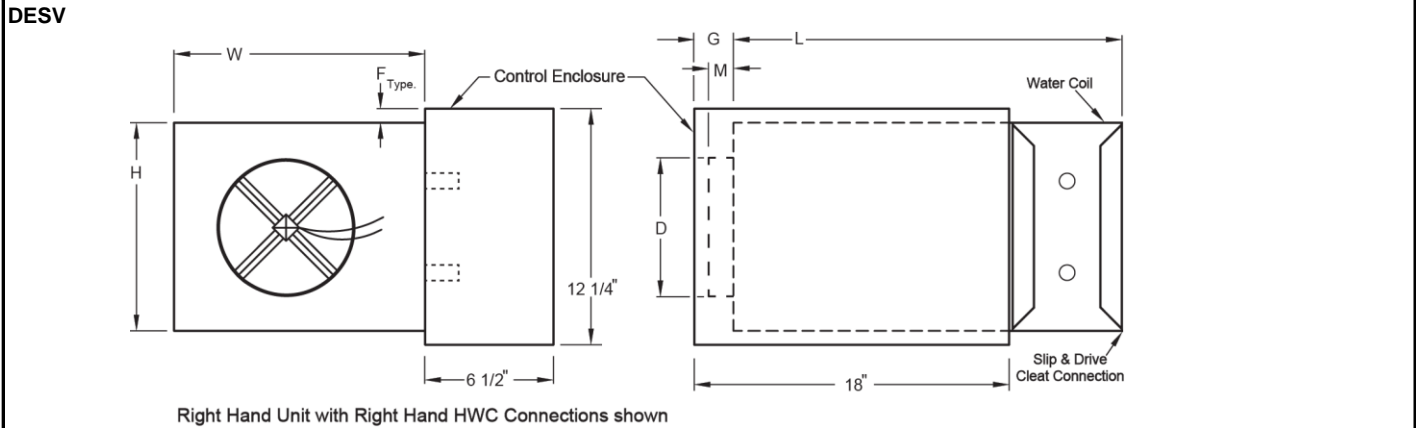
Job Name: Sharonville Convention Center

DESV	1	V17-02	0 - BASIC	L - ½" EcoShield (Foil Face)	12	1R - 22GA RH, Access Door	0000 - NONE	0000 - NONE	1080	540	00 - NONE	00 - NONE	00 - NONE	E - METAL CTRL ENCLOS	0 - NONE	0 - NONE	0 - NONE	0 - NONE	W11-1 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	V17-03	0 - BASIC	L - ½" EcoShield (Foil Face)	07	1R - 22GA RH, Access Door	0000 - NONE	0000 - NONE	430	215	00 - NONE	00 - NONE	00 - NONE	E - METAL CTRL ENCLOS	0 - NONE	0 - NONE	0 - NONE	0 - NONE	W12-2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	V17-04	0 - BASIC	L - ½" EcoShield (Foil Face)	10	1R - 22GA RH, Access Door	0000 - NONE	0000 - NONE	920	460	00 - NONE	00 - NONE	00 - NONE	E - METAL CTRL ENCLOS	0 - NONE	0 - NONE	0 - NONE	0 - NONE	U12-2 ROW RH HIGH CAPACITY	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	V17-05	0 - BASIC	L - ½" EcoShield (Foil Face)	14	1R - 22GA RH, Access Door	0000 - NONE	0000 - NONE	1430	715	00 - NONE	00 - NONE	00 - NONE	E - METAL CTRL ENCLOS	0 - NONE	0 - NONE	0 - NONE	0 - NONE	W12-2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE
DESV	1	V17-06	0 - BASIC	L - ½" EcoShield (Foil Face)	14	1R - 22GA RH, Access Door	0000 - NONE	0000 - NONE	1560	780	00 - NONE	00 - NONE	00 - NONE	E - METAL CTRL ENCLOS	0 - NONE	0 - NONE	0 - NONE	0 - NONE	W12-2 ROW RH	000 - NONE	0	0 - NONE	0 - NONE	0 - NONE	0 - NONE

DESV

Single Duct Terminal Unit, Direct Digital Control, Pressure Independent

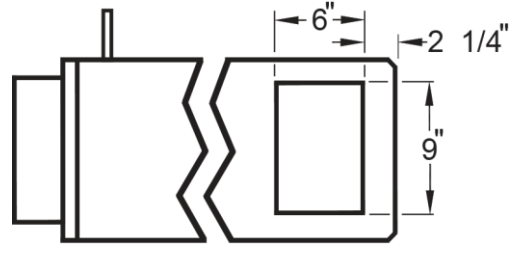
Main Product DESV-1



Air Inlet (D) is 1/8" smaller than its Nom. Inlet.
 All dimensions are in inches.

Unit-Size	CFM Range	Nom. Inlet	F	G	W	H	M	L
16	0 - 4000	16" Dia.	-	3 3/8"	24"	18"	3 3/8"	23"
10	0 - 1400	10" Dia.	-	5 3/8"	14"	12 1/2"	3 3/8"	20 1/2"
09	0 - 1050	9" Dia.	-	5 3/8"	14"	12 1/2"	3 3/8"	20 1/2"
06	0 - 500	6" Dia.	2 1/8"	7 3/8"	12"	8"	3 3/8"	20 1/2"
12	0 - 2000	12" Dia.	-	5 3/8"	16"	15"	3 3/8"	20 1/2"
07	0 - 650	7" Dia.	1 1/8"	7 3/8"	12"	10"	3 3/8"	20 1/2"
14	0 - 3000	14" Dia.	-	3 3/8"	20"	17 1/2"	3 3/8"	23"

Access Door Opening



(Bottom View)

Project Sharonville Convention Ce
 Architect
 Engineer
 Contractor
 Designation



Date 03/09/2022
 Office Controlled Air
 Preparer Matt Tepe
 Version 2014.0.522

General Description **DESV-1**

- Heavy gauge steel housing. Mechanically sealed and gasketed, leak resistant construction. Less than 2% of nominal CFM at 1.5" sp wg.
- Dual density internal insulation, treated to resist air erosion. Meets requirements of NFPA 90A and UL 181.
- Rectangular discharge opening is designed for slip and drive cleat duct connection.
- Multipoint center averaging inlet velocity sensor.
- Digital control packages can be factory mounted by Titus.
- Choice of right hand or left hand control location.
- Model DESV can be installed horizontally, vertically, or at any angle. Operation is not affected by position.
- Gauge tees for CFM measurement.

Option Schedule **DESV-1**

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
1	1	V14-01	16	3000	1500
2	1	V14-02	10	740	370
6	1	V14-06	10	700	350
8	1	V14-08	16	3000	1500
11	1	V17-03	07	430	215
13	1	V17-05	14	1430	715
14	1	V17-06	14	1560	780

<p>SENSOR CODE 3 - AEROCROSS UNIT CONFIG 0 -BASIC LINER OPTION L - ½" EcoShield (Foil Face) CASING CONFIG 1R -22GA RH, Access Door DIGITAL CONTROLLER 0000 -NONE ACTUATOR TYPE 0000 -NONE CONTROL ACC1 00 -NONE CONTROL ACC2 00 -NONE CONTROL ACC3 00 -NONE UNIT ACC1 E -METAL CTRL ENCLOS UNIT ACC2 0 -NONE</p>	<p>UNIT ACC3 0 -NONE UNIT ACC4 0 -NONE UNIT ACC5 0 -NONE WATER COIL W12 -2 ROW RH ELECTRIC HEAT TYPE 000 -NONE KW 0 ELEC COIL ACC1 0 -NONE ELEC COIL ACC2 0 -NONE ELEC COIL ACC3 0 -NONE ELEC COIL ACC4 0 -NONE</p>
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ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
3	1	V14-03	16	2500	1250
5	1	V14-05	09	700	350
7	1	V14-07	06	240	120
9	1	V17-01	09	560	280
10	1	V17-02	12	1080	540

Project Sharonville Convention Ce
 Architect
 Engineer
 Contractor
 Designation



Date 03/09/2022
 Office Controlled Air
 Preparer Matt Tepe
 Version 2014.0.522

Option Schedule (continued) DESV-1

SENSOR CODE 3 - AEROCROSS
UNIT CONFIG 0 -BASIC
LINER OPTION L - ½" EcoShield (Foil Face)
CASING CONFIG 1R -22GA RH, Access Door
DIGITAL CONTROLLER 0000 -NONE
ACTUATOR TYPE 0000 -NONE
CONTROL ACC1 00 -NONE
CONTROL ACC2 00 -NONE
CONTROL ACC3 00 -NONE
UNIT ACC1 E -METAL CTRL ENCLOS
UNIT ACC2 0 -NONE
UNIT ACC3 0 -NONE
UNIT ACC4 0 -NONE
UNIT ACC5 0 -NONE
WATER COIL W11 -1 ROW RH
ELECTRIC HEAT TYPE 000 -NONE
KW 0
ELEC COIL ACC1 0 -NONE
ELEC COIL ACC2 0 -NONE
ELEC COIL ACC3 0 -NONE
ELEC COIL ACC4 0 -NONE

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
4	1	V14-04	10	1000	500

SENSOR CODE 3 - AEROCROSS
UNIT CONFIG 0 -BASIC
LINER OPTION L - ½" EcoShield (Foil Face)
CASING CONFIG 1R -22GA RH, Access Door
DIGITAL CONTROLLER 0000 -NONE
ACTUATOR TYPE 0000 -NONE
CONTROL ACC1 00 -NONE
CONTROL ACC2 00 -NONE
CONTROL ACC3 00 -NONE
UNIT ACC1 E -METAL CTRL ENCLOS
UNIT ACC2 0 -NONE
UNIT ACC3 0 -NONE
UNIT ACC4 0 -NONE
UNIT ACC5 0 -NONE
WATER COIL U11 -1 ROW RH HIGH CAPACITY
ELECTRIC HEAT TYPE 000 -NONE
KW 0
ELEC COIL ACC1 0 -NONE
ELEC COIL ACC2 0 -NONE
ELEC COIL ACC3 0 -NONE
ELEC COIL ACC4 0 -NONE

ID	Quantity	Tag	UNIT SIZE	MAX PRIMARY CFM	MIN PRIMARY CFM
12	1	V17-04	10	920	460

SENSOR CODE 3 - AEROCROSS
UNIT CONFIG 0 -BASIC
LINER OPTION L - ½" EcoShield (Foil Face)
CASING CONFIG 1R -22GA RH, Access Door
DIGITAL CONTROLLER 0000 -NONE
ACTUATOR TYPE 0000 -NONE
CONTROL ACC1 00 -NONE
CONTROL ACC2 00 -NONE
CONTROL ACC3 00 -NONE
UNIT ACC1 E -METAL CTRL ENCLOS
UNIT ACC2 0 -NONE
UNIT ACC3 0 -NONE
UNIT ACC4 0 -NONE
UNIT ACC5 0 -NONE
WATER COIL U12 -2 ROW RH HIGH CAPACITY
ELECTRIC HEAT TYPE 000 -NONE
KW 0
ELEC COIL ACC1 0 -NONE
ELEC COIL ACC2 0 -NONE
ELEC COIL ACC3 0 -NONE
ELEC COIL ACC4 0 -NONE

Project Sharonville Convention Ce
Architect
Engineer
Contractor
Designation



Date 03/09/2022
Office Controlled Air
Preparer Matt Tepe
Version 2014.0.522

Accessories **DESV-1**

Selected Liner: 1/2" EcoShield Insulation (Foil Face)

Insulation Characteristics:

Material: Foil Face Natural Fiber Duct Liner

Thickness: 1/2 inch

R-Value: 2.0 ft² °F h/Btu @ 75°F

Density: 3.0 lbs/ft³

Flame Spread: less than 25

Smoke Density: less than 50

Mold Growth: None

Code Compliances:

NFPA 90A & 90B - Appliances

NFPA 255 - Flame / Smoke Spread (25/50)

UL 723 - Flame / Smoke Spread (25/50)

ASTM C 411 - Operating Temperature Limits

ASTM E84 - Flame / Smoke Spread (25/50)

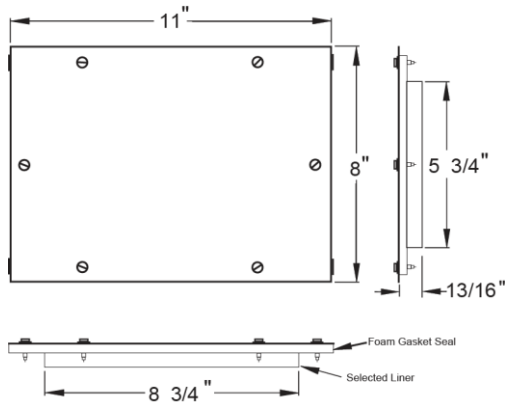
ASTM C 1071 - Maximum Air Velocity

ASTM C 739 - Corrosion Resistance

ASTM G 21 - Fungi Resistance

ASTM G 22 - Bacteria Resistance

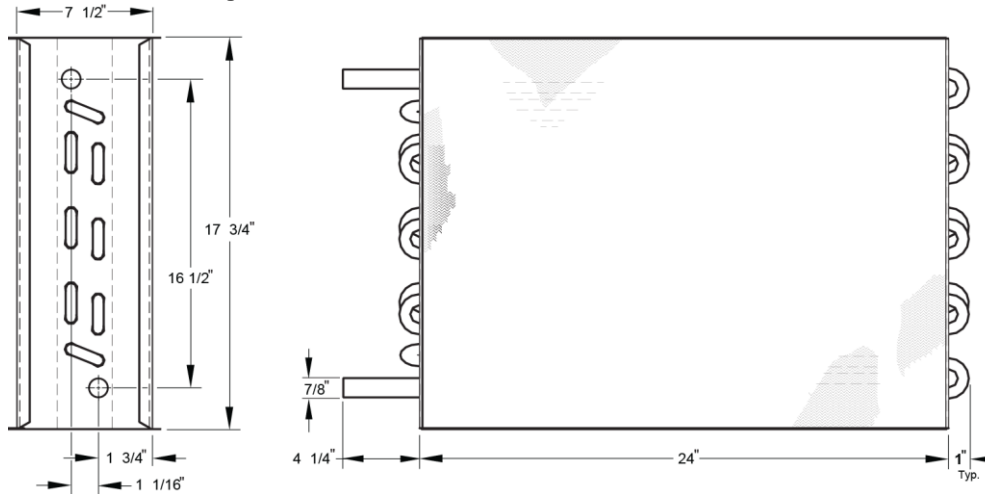
Standard Access Door



Accessories (continued)

DESV-1

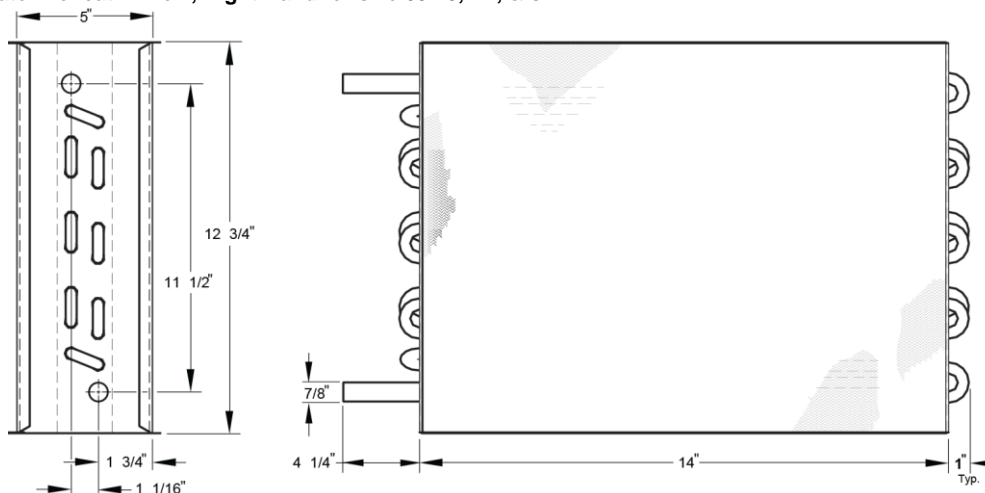
ESV Hot Water Reheat: 2-Row, Right Hand for size 16



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs.)	Water Volume (gal)
4.75	0.57

ESV Hot Water Reheat: 2-Row, Right Hand for size 09 10, 7E, & 8E



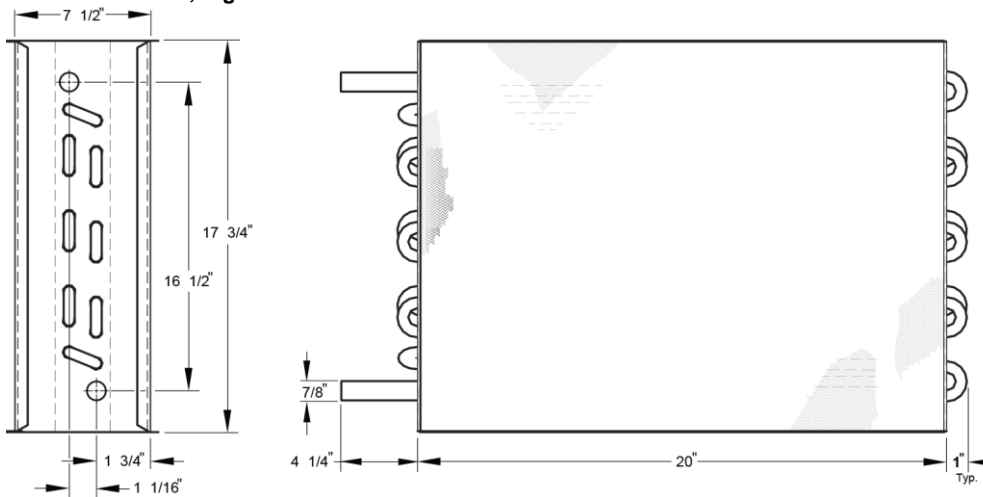
Accessories (continued)

DESV-1

- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs.)	Water Volume (gal)
2.32	0.28

ESV Hot Water Reheat: 2-Row, Right Hand for size 14 & 2E



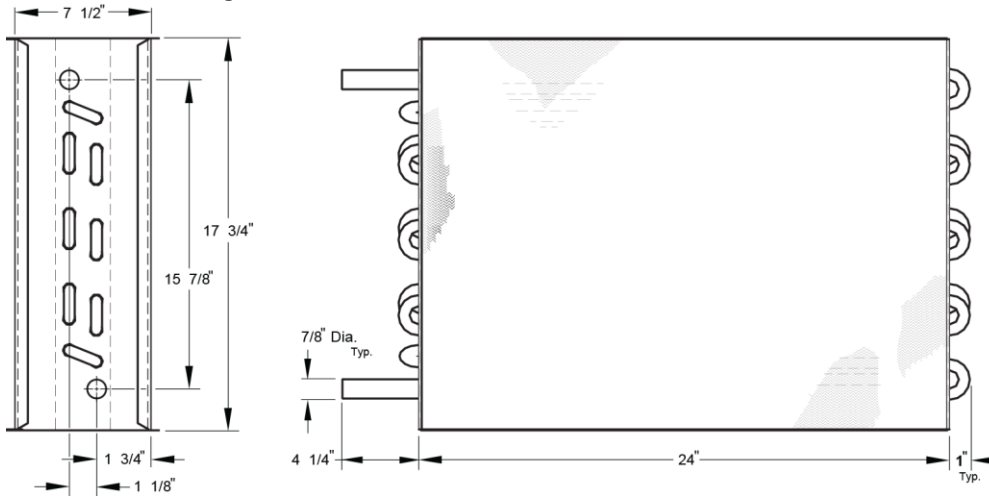
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- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs.)	Water Volume (gal)
4.08	0.49

Accessories (continued)

DESV-1

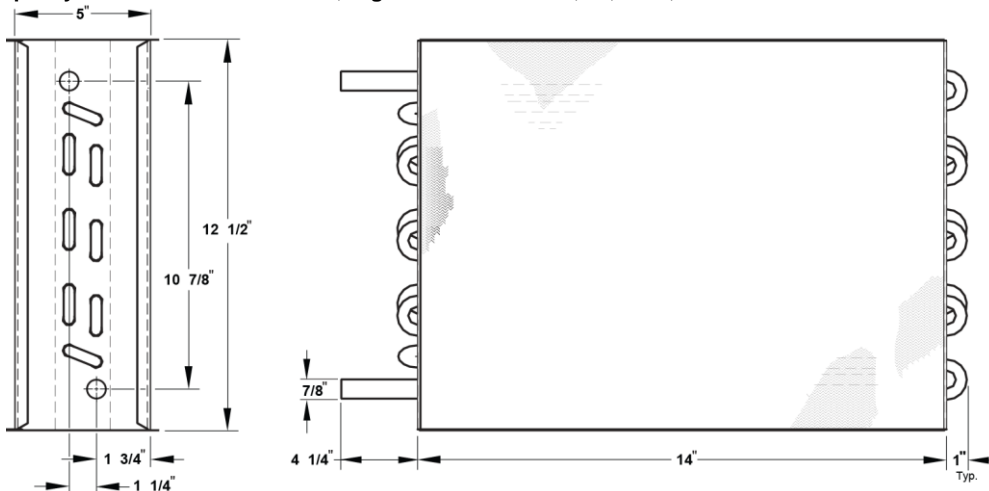
ESV Hot Water Reheat: 1-Row, Right Hand for size 16



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs.)	Water Volume (gal)
2.67	0.32

ESV High Capacity Hot Water Reheat: 1-Row, Right Hand for size 09, 10, & 7E, & 8E



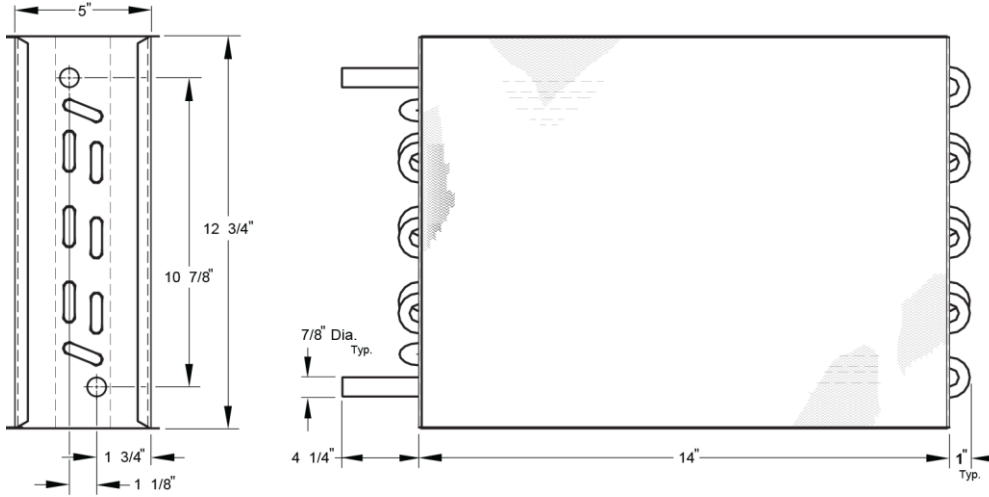
Accessories (continued)

DESV-1

- Coil tubing is 1/2" diameter with a 0.016 thick copper wall.
- Coil connection tubes are 0.032" thick copper.
- Aluminum plate fins, 12 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water

Water Weight (lbs.)	Water Volume (gal)
1.17	0.14

ESV Hot Water Reheat: 1-Row, Right Hand for size 09 & 10



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs)	Water Volume (gal)
1.17	0.14

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 Architect
 Engineer
 Contractor
 Designation

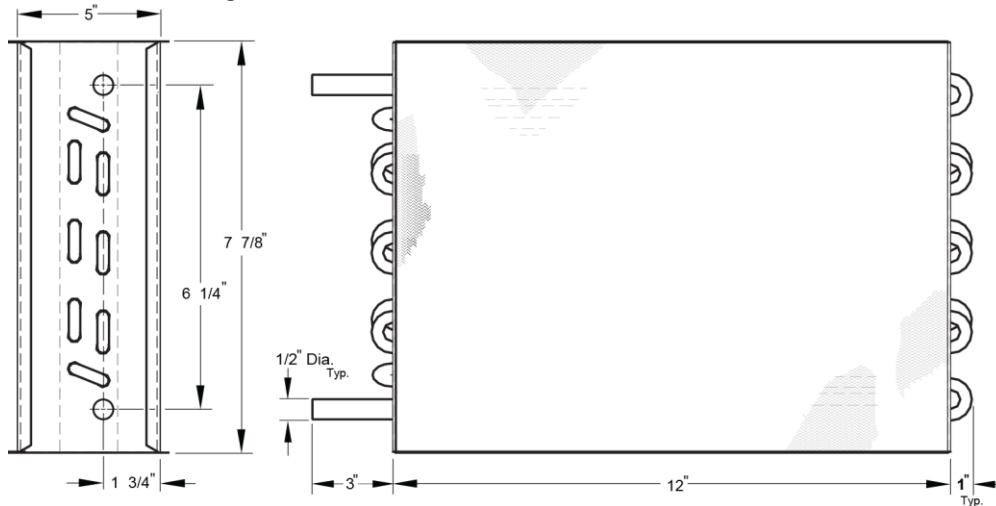


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Accessories (continued)

DESV-1

ESV Hot Water Reheat: 1-Row, Right Hand for size 04, 05, & 06



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs)	Water Volume (gal)
0.59	0.07

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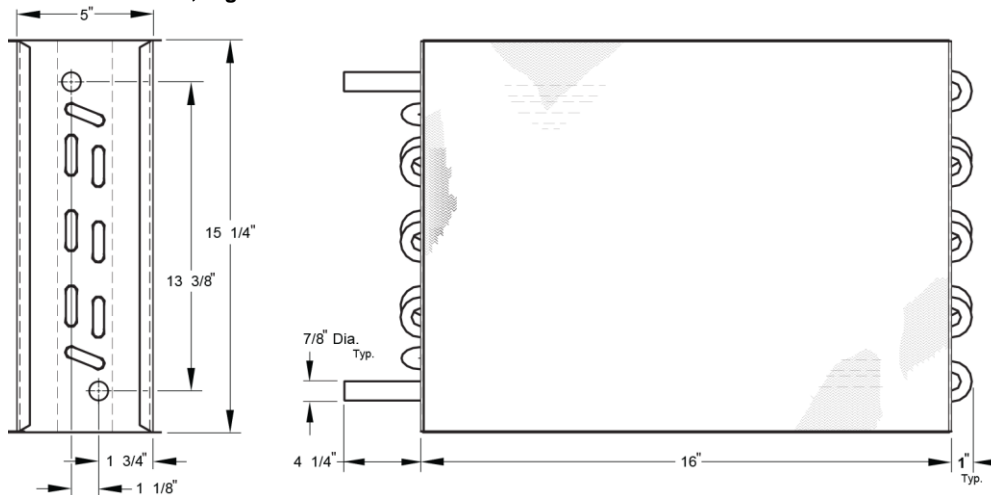


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Accessories (continued)

DESV-1

ESV Hot Water Reheat: 1-Row, Right Hand for size 12 & 1E



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs.)	Water Volume (gal)
1.87	0.22

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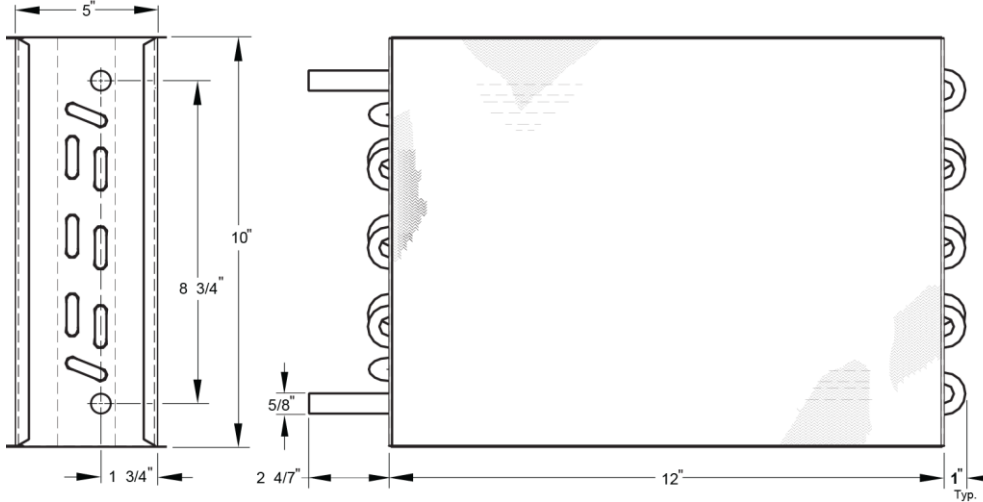


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Accessories (continued)

DESV-1

ESV Hot Water Reheat: 2-Row, Right Hand for size 07, 08, 5E, & 6E



- Coil tubing is 1/2" diameter 0.016" thick copper.
- Coil connection tubing is 0.032" thick copper.
- Aluminum plate fins, 10 per inch.
- Casing is 20 Gauge galvanized steel.
- Copper male solder connections.
- Connection is slip and drive to duct work down stream of terminal.
- Leak tested to 450 PSIG.
- Maximum working pressure, 360 PSIG
- Maximum 200 degree F water
- Coils rated and certified to AHRI Standard 410

Water Weight (lbs.)	Water Volume (gal)
1.82	0.22